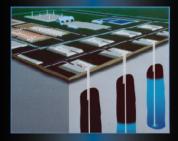


Strategic Petroleum Reserve

- Established by Congress in 1975
- U.S. Emergency Stockpile of Petroleum
- Mission of Providing Economy & Energy Security
- America Insurance Against Oil Disruption

Mission of U.S. Energy Security

- To Protect the U.S. from Future Disruptions in Critical Oil Supplies
- To Meet U.S. Stockholding Requirement under the International Energy Program (IEP) - 90 Days



Salt Dome Storage

- Proven Storage Technology
- Underground Storage (hidden from sight)
- Oil Does Not Dissolve Salt
- Easy to Get In and Out
- No Evaporation or Air Emissions
- Most Economical Method of Storage
- Utmost Safety and Security for Oil

Strategic Petroleum Reserve

EXISTING FACILITIES

- Four Gulf Coast Oil Storage Sites
- Storage Capacity: 727 Million Barrels
- Current Inventory: 701.0 Million Barrels
- Drawdown Capability: 4.4 Million Barrels/Day





SPR Expansion Program

- Required by Energy Policy Act of 2005
- Address U.S. Needs of Additional Energy Security
- DOE Goal to Restore 90 Days of Import Protection

SPR Days of Imports Protection



Richton Salt Dome Selected for SPR Expansion

- Located in Perry County, MS
- 160 Million Barrels of Crude Oil
- Underground Storage in 16 Caverns
- Pipeline Connections to Pascagoula and Major Interstate Pipeline for Emergency Oil Distribution
- Pipeline to Gulf for Offshore Brine Disposal
- New Marine Facility in Pascagoula, MS
- New Pipeline Injection Facility at Liberty, MS





2006 ENVIRONMENTAL IMPACT STATEMENT

Purpose and Need

Energy Policy Act (2005) Required DOE to Expand to 1 Billion Barrels of Capacity

Record of Decision

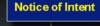
DOE Secretary Signed February 14, 2007

EIS Proposed Richton Site

- Large, undeveloped salt dome
- Inland location reducing potential hurricane impacts
- Enhancement of current oil distribution capabilities:
 - Provides oil distribution to the Capline pipeline system
 - Provides oil distribution to Pascagoula refining center.

Strategic Petroleum Reserve

NATIONAL ENVIRONMENTAL POLICY ACT (NEPA) PROCESS



Notice Published 3/5/2008



- Scoping Period March 5 April 29, 2008
- Scoping Meetings
- April 7, New Augusta (Perry Country) - April 8, Leakesville (Greene Country)
- April 9. Lucedale (George Country)
- _ April 10, Pascagoula (Jackson County)
- Initiate Agency Consultation



Public Comments

Final EIS

Record of Decision

- Spring 2008 Spring 2009
- Biological Assessment April 2008 - April 2009
- 45 Day Comment Period May 2009 - June 2009
- Public Meetings Spring 2009
- Spring 2009 Summer 2009
- Incorporate Biological Opinion June - July 2009
- o 30 Day No Action Period Spring 2009 - Summer 2009
- Issue in August 2009



- Project Design Implementation
 - Final Mitigation and Coordination
 - Final Permit Decisions





SUPPLEMENTAL **ENVIRONMENTAL** IMPACT STATEMENT

Water Intake Structure

- Move to location with greater water availability
- Pascagoula River near Merrill

Terminal

 Relocate to Bayou Casotte Harbor

Brine Disposal

- Use existing underwater right-of-way from Bayou Casotte
- Diffuser approximately 1.2 miles west of proposed location





WATER SUPPLY **NEEDS AND IMPACTS**

WATER SUPPLY NEEDS

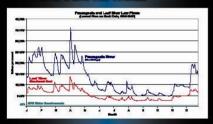
Significant Water is needed for 5 YEARS to develop oil

Original EIS proposed use of Leaf River.

Supplemental EIS proposes use of Pascagoula River:

Greater water availability

- Lessen potential impacts to Endangered Species
- ► Reduces water curtailment concerns
- ► Possibility of supplemental water from Okatibbee Reservoir to offset water withdrawal



IMPACTS ON PASCAGOULA RIVER

- ► River levels range from ABOUT 14-feet to 2-feet at
- SPR water withdrawal impact ABOUT 1-Inch
- SPR water withdrawal supplemented and/or curtailed in low flow conditions based on permit

IMPACT ON PASCAGOULA RIVER

	River Flow (Gal/Sec)	SPR Irrialm (Gal/Sec)	Percent
Peak Flow	712,145	583	0.08%
Mean Delty Flow	66,916	583	0.88%
State Regulatory Limit	6,869	583	8.51%

Strategic Petroleum Reserve

WATER SUPPLY SOURCES AND LOCATIONS





WATER INTAKE **DESIGN AND PROTECTION**

WATER INTAKE DESIGN

- Water Intake is simple and non-intrusive
- Water intake does not interfere with flow or fishing
- ► Water withdrawal would be regulated by USFWS and MDEQ parmits



PROTECTION OF ENDANGERED SPECIES

- Endangered species: Guif Sturgeon, Pearl Darter and Yellow-Biotched Map Turtle
- Comprehensive Biological Assessment will be conducted during Supplemental EIS
- Intake would utilize submerged T-screens designed to protect the endangered species

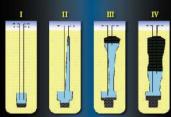




BRINE DISPOSAL NEEDS AND IMPACTS

BRINE DISPOSAL NEEDS

- Solution mining of caverns in salt produces large volumes of salt water (or brine) — 7:1 ratio
- Volumes generated are too great for desalination or deep well injection
- Offshore Brine Disposal has been safely and effectively used for over 30 years



IMPACTS OF OFFSHORE DISPOSAL

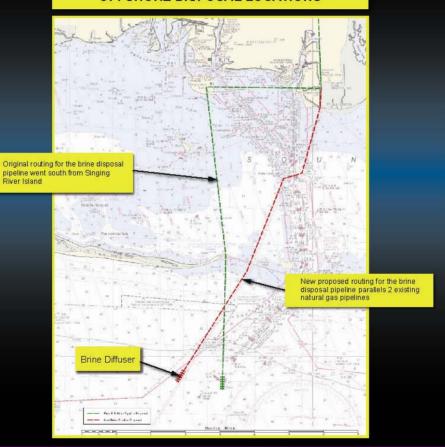
- SPR brine is common salt water with a higher purity and concentration than in the Gulf
- SPR brine discharge diffuses very rapidly to the Gulf salinity levels (25-31 ppt)
- Brine disposal would not impact Gulf Island National Seashore

PROVEN TO BE ENVIRONMENTALLY SAFE

- Prior Studies conducted by Texas A&M and McNeese State University have shown there are no adverse impacts from Offshore Brine Disposal
- Fish are highly mobile and easily swim away when running into areas of increased salinity
- Marine species tolerate salinity variations

Strategic Petroleum Reserve

PROPOSED BRINE (SALT WATER) OFFSHORE DISPOSAL LOCATIONS





BRINE PIPELINE DESIGN AND PROTECTION

BRINE DISPOSAL PIPELINE

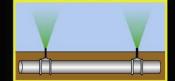
- Onshore pipeline 48-inch, 80 miles
- ➤ Offshore pipeline 48-inch, 13 miles
- Pipelines constructed on seamless steel
- pipe with 0.5 in wall thickness

 Pipelines coated for EXTRA corrosion protection
- Scheduled Brine Line Integrity Testing



OFFSHORE BRINE DIFFUSER

- Brine is spread by a "Diffuser" to accelerate dilution or mixing
- Diffuser is 13 miles offshore, 6 miles beyond GulfIslands National Seashore in 45-ft of water
- Diffuser is 4500 feet long with 75 exit ports, 60-ft apart
- Diffuser nozzles are flexible rubber hoses





ORIGINAL EIS PROPOSED LOCATION

Pascagoula Naval Station Base on Singing River Island – BRAC Closure in June 2007



WHY PROPOSING RELOCATION?

- Port's Economic Development Plans for Singing River Island
- Not Collocated with Pascagoula Oil Infrastructure Facilities
- Pascagoula Channel Depth Limitation
- Island Stabilization and Hurricane Vulnerabilities Issues

Strategic Petroleum Reserve

PORT OF PASCAGOULA SPR MARINE TERMINAL LOCATIONS





SUPPLEMENTAL EIS PROPOSED ALTERNATIVES

•Alt "A" - South Greenwood Island •Alt "B" - East Bank Bayou Casotte





ENVIRONMENTAL ADVISORY COMMITTEE

- Provides independent assessments, evaluations and advice to the SPR
- 9 m ember committee:
 - 3 environm ental experts
 - 3 community representatives
 - 3 technical experts
- Will add representation from Mississippi

REGULATORY AGENCIES

Federal

U. S. Coast Guard
Environmental Protection Agency
U. S. Department of Transportation
U. S. Army Corps of Engineers
U. S. Fish and Wildlife Service

Mississippi

Mississippi Department of Marine Resources

Mississippi Department of Environmental Quality

Mississippi Department of Wildlife, Fisheries and Parks

Mississippi Oil and Gas Board

Mississippi Department of Archives and History

Strategic Petroleum Reserve

Our Mission is to provide America with Energy Security in an Environmentally Safe and Sound Manner









Protection and Preservation of Wetlands and Wildlife while providing U.S. Energy Security











ENVIRONMENTAL CULTURE

"Going Beyond Regulatory Requirements"



Charter Member

EPA National Environmental Achievement Track (Only Open to Organizations With Strong Compliance Record)



International Organization of Standards (ISO)

Certification

ISO 14001 Certified

Environmental Management System

1st U.S. Bulk Petroleum Storage Entity Certified

Major Environmental Quality Awards:

- LA Environmental Management Award of Excellence
- TX Clean Texas-Cleaner World National Leader
- National Association of Environmental Professionals-Excellence Award for Best Available Technology
- National Pollution Prevention Roundtable-Most Valuable Pollution Prevention Award



Salary Information

Perry County Salary

Average Salary	\$42,857
Average Construction Salary	\$43,266
SPR Average Construction Salary	\$58,828
Average Oil Services Operations Salary	\$52,529
SPR Average Salary for Permanent Employees	\$81,134

Jackson County Salary

Average Salary	\$51,71
Average Construction Salary	\$48,44
SPR Average Construction Salary	\$58,82
Average Oil Services Operations Salary	\$52,52
SPR Average Salary for Permanent Employees	\$81,13

George County Salary

Average Salary	\$51,714
Average Construction Salary	\$48,443
SPR Average Construction Salary	\$58,828

Yellow - Bureau of Labor Statistics (2006) Green - SPR Estimates (2006)

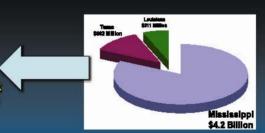
Strategic Petroleum Reserve

SPR EXPANSION TOTAL PROJECT COST

• Mississippi = \$4.2 Billion

- Permanent Jobs Created in Mississippi = 224

· Annual Payment for these Permanent Jobs (in 2006 dollars) = \$18,174,016



Jobs Created



Construction Phase: 2012 - 2014 Permanent Employment Phase: from 2014 on



Types of Construction Jobs

Pipefitters Welders

Equipment Operators

Bulldozers, Cranes, Backhoes

Concrete Finishers

Oll Rig Workers

Carpenters Bricklayers

Types of Permanent Jobs

Site Management

Engineers (Mechanical & Electrical)

Field Operators Maintenance Personnel

Instrumentation & Electrical Technicians

Security Personnel

Environment, Safety & Health Specialists

Community Benefits Outreach From Current SPR Sites

Assistance in School Programs **Donations to Community Groups** Volunteers for Community Activities **Providing Training Opportunities for Local Emergency Response Units**